Nathan R. De Jager

Ecologist
Upper Midwest Environmental Sciences Center
United States Geological Survey
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Interests

Ecosystems Ecology, Landscape Ecology, Mathematical Ecology, Conservation Biology

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Education

2008 PhD in Ecology, Evolution, and Behavior with a minor in Conservation Biology
University of Minnesota, St. Paul Minnesota, USA 55108

2005 MS in Biology with a minor in Applied and Computational Mathematics
University of Minnesota, Duluth, Minnesota, USA 55811

2001 BA in Biology/Environmental Science
Northwestern College, Orange City, Iowa, USA 51041

Teaching Experience

University of Minnesota-Duluth, Duluth, MN
2002-2003 Laboratory Instructor: General Biology I, Fall and Spring Semesters
2003-2004 Laboratory Instructor: Ecology, Fall and Spring Semesters

Au Sable Institute of Environmental Studies, Mancelona, MI
2002 Teaching Assistant, Aquatic Ecology

Duluth East High School, Duluth, MN
3/06-1/08 Coach, Baseball

Research Experience

Upper Midwest Environmental Sciences Center, US Geological Survey, La Crosse, WI
7/08-Present Postdoctoral Ecologist

University of Minnesota-Duluth, Duluth, MN
8/07-7/08 Doctoral Dissertation Fellow

Natural Resources Research Institute, Duluth, MN
5/04-8/07 Graduate Research Assistant

Swedish University of Agricultural Sciences (SLU), Umeå, Sweden
5/03-8/03 Graduate Research Assistant

Technical Experience

US Department of Agriculture, Natural Resources Conservation Service, Orange City, IA
5/99-8/00 Soil Conservation Technician

US Department of Agriculture, Natural Resources Conservation Service, Boone, IA
5/01-5/02 Soil Conservation Technician

Publications

De Jager, N.R., Pastor, J., Hodgson, A.L. *In Press.* Scaling the effects of moose browsing on forage distribution from plant canopies to landscapes. Ecological Monographs.

De Jager, N.R. and Pastor, J. 2008. Effects of moose population density and site productivity on the canopy geometries of birch (*Betula pubescens* and *B. pendula*) and Scots pine (*Pinus sylvestris*). Wildlife Biology 14. 251-262.

Van Dyke, F., B. Darby, S.E. Bowdish, J. D. Schmeling, and N.R. De Jager. 2002. Ecosystem Management and Moose: Creating a Coherent Concept with Functional Management Strategies. Alces 38: 55-72.

De Jager, N.R. and Pastor, J. *In Review.* Effects of simulated moose browsing on the growth and morphology of Rowan (*Sorbus aucuparia*). Ecography

De Jager, N.R., Pastor, J, and Dewey, B. *In Review.* Declines in moose population density at Isle Royale National Park, MI, USA and accompanied changed in landscape patterns. Landscape Ecology

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Funded Project Proposals and Grants

De Jager, N. and Nelson, J.C. 2008. Quantifying changes in landscape patterns of the Upper Mississippi River System in space and time. US Army Corps of Engineers/US Geological Survey Long Term Resource Monitoring Program Additional Program Element. ($63,000)

De Jager, N. 2006. Multiple-scale spatial dynamics of the moose-forest-soil ecosystem of Isle Royale National Park, MI, USA. Dissertation Fellowship, University of Minnesota ($21,500)

De Jager, N. and F. Van Dyke. 1999. Riparian Habitat and Prairie Restoration Project Proposal to Northwestern College President and Farm Committee. (commitment of 20 acres for 20 years and funding totaling over $5,000)

De Jager, N. 1999. Application for Northwestern College to the Iowa Financial Incentive Program for Soil Erosion Control. Iowa Department of Agriculture and Land Stewardship, Division of Soil Conservation ($7,000)

Professional Affiliations

Ecological Society of America
International Association for Landscape Ecology
American Association for the Advancement of Science
Society for Conservation Biology

References

Dr. John Pastor, Professor and Director of Graduate Studies, Department of Biology. University of Minnesota, Duluth. Email:jpastor@umn.edu, 218-726-7001.

Dr. Lee Frelich, Research Associate and Director of the University of Minnesota Center for Hardwood Ecology. University of Minnesota, Twin Cities. Email:freli001@umn.edu.

Dr. Fred Van Dyke, Professor, Department of Biology, Wheaton College. Email: Fred.G.VanDyke@wheaton.edu.